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at moments of arrival of sync. pulses from the electronarcosis appts. so that the sync. pulse repetition period equals the noise period. The sync. pulse is lagged so that there is no noise given electronic stimulation of the electronarcosis appts. at 100-200Hz.

USE/ADVANTAGE - In recording E.E.G.s in medicine, protection is provided from interference by electronarcosis appts. Bul.26/ 15.7.85 (4pp Dwg.No.1/2)

-5-

AN - 85-048408/08
 XRPX - W85-035841
 TI - Stomatological post operation electro-analgesia - by applying bipolar electric pulses of prescribed time, frequency and amplitude
 DC - SOS P34
 PA - (MOSC MED STOMATOLOG; (MORE=) MOSC REFLEX-THERAPY INST
 IN - RUDKO VP, DURINYAN RA, RIZYAEV AF
 NP - 1
 PN - SU1079252-A 84.03.15 (8508)
 PR - 82.07.12 82SU-474528
 AP - 82.07.12 82SU-474528
 IC - A61N-001/36
 AB - (SU1079252)

The treatment is performed with bipolar electric current pulses of 15-60mA amplitude, 1-10 Hz frequency and 15-100 micros length. After operations in the trigeminal nerve second branch innervation zone, the active electrode is positioned on the skin where the suborbital nerve emerges, and the passive electrode where the zygomatic arch and the vertical line from the orbit outer edge intersect. After operations in the third branch zone the active electrode is positioned in the external auditory meatus and the passive electrode on the skin where the mental nerve emerges.

USE - To reduce the quantity of analgetics required.
 Bul.10/15.3.84 (3pp Dwg.No.0/0)

-6-

AN - 84-261800/42
 XRPX - W84-195584
 TI - Method of general electro-anaesthesia - using smoothly increasing DC current, then with series of impulses of smoothly increasing amplitude
 DC - SOS P34
 PA - (LEBEV;) LEBEDEV V P
 IN - LEBEDEV VP, KATSNELSON YAS, LEOSSKO VA
 NP - 1
 PN - SU1074543-A 84.02.23 (8442)
 PR - 82.01.18 82SU-385722
 AP - 82.01.18 82SU-385722
 IC - A61N-001/34
 AB - (SU1074543)

The method involves acting on the brain with series of high frequency impulses. Treatment is first given with direct current smoothly increased over a period of 3-5 minutes to 6-10mA, and the treatment with series of impulses is performed with a frequency of impulses in the series of 9.5-10.5Hertz, a pulse period to pulse duration ratio of 1.6-2.5 and a length of the series of 3-5 m.sec. and the amplitude of the series of impulses is smoothly increased over a period of 3-4 minutes to a value which is 0.2-0.5 of the maximum value of the direct current.

USE/ADVANTAGE - To increase the depth of narcosis without the risk of side effects. It is simple to carry-out, effective for its purpose with no side-eff

pharmacological substances, including stability of haemo-dynamic index manipulation. Bul.7/23.2.84. (3pp Dwg.No.0/0)

-7-

AN - 84-131800/21
 XRPX - C84-055866
 XRPX - X84-097549
 TI - Electrical anaesthesia for surgical operations - involves introducing polyglucin before beginning of anaesthesia into patient body, to improve effects

DC - B04 SOS P34
 PA - (GROD=) GRODZENSK MEDIC INS
 IN - ILIM VI, GUBAR VV, MIRON AV
 NP - 1
 PN - SU-995801-A 83.02.25 (8421)
 PR - 80.07.09 80SU-986393
 AP - 80.07.09 80SU-986393
 IC - A61M-001/34
 AB - (SU-995801)

Electrical anaesthesia has improved effect by introducing polyglucin in amt. 0.5-5 ml per 1kg of the patient body mass during the 2-4 hours before anaesthesia.

The depth of anaesthesia is increased in the majority of patients during surgical operations and the additional introduction of analgesics or neuroleptia media are eliminated. Bul.5/15.2.83. (6pp Dwg.No.0/0)

-8-

AN - 83-H4416K/22 (H4416K)
 XRPX - W83-096836
 TI - Electro-anaesthesia using pulsed currents - involves applying constant voltage pulses to patient's forehead and neck
 DC - SOS P34
 PA - (KASTV;) KASTRUBIN E M
 IN - KASTRUBIN EM, KORDJUEKOV JV
 NP - 1
 PN - US4383522-A 83.05.17 (8322)
 LR - E
 PR - 80.11.12 80US-205981
 IC - A61N-001/34
 AB - (US4383522)

The method of electroanaesthesia of a patient comprises conducting preliminary preoperative medicamentous preparation, conducting induction anesthesia, administering muscle relaxants, conducting intubation followed by forced pulmonary ventilation, and applying D.C. pulses involving an additional constant component with the help of electrodes placed in the region of the forehead and neck of the patient.

The electrodes includes cathodes applied within the region of the forehead, and anodes applied within the region of the neck. Prior to conducting induction anesthesia, the patient is given a treatment with constant pulse ratio pulses applied for a period of about 20 minutes at a repetition frequency within a range of 800 Hz to 1000 Hz in combination with an additional constant component of from 0.1 mA to 0.2 mA, while increasing the average current intensity of the stabilised voltage in the patient circuit up to a range of about 0.4 mA to 1.2 mA. (4pp)

-9-

AN - 81-J53000/37 (J53000)
 TI - Combined defibrillation and electro-narcosis appts. - has voltage source charging defibrillation capacitor supplying signal to AND-gate

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BIOELECTRIC PHENOMENA

AB - IT WAS ESTABLISHED EXPERIMENTALLY THAT THE MOLE CHARGE OF BLOOD LIES BETWEEN 1.78 AND 2.82×10^{-9} CGSE UNITS FOR PARTICLES OF DIAMETERS 1.6 TO 2.06 MICRONS AND MAY BE EITHER POSITIVE OR NEGATIVE. THE ERYTHROCYTE CHARGE IS OF THE ORDER 10^{-9} CGSE UNITS, FOR ERYTHROCYTES OF ABOUT 2 MICRONS, AND IS ALWAYS NEGATIVE.

-3-

AN - C7307791
 TI - NEUROBIONICS: PROBLEMS AND RESULTS
 AU - IVANOV-MUROMSKY, K.A.; MEITUS, V.YU.; ZASLAVSKY, S.JA.; PARAMONOV, YU.V.
 OS - INST. CYBERNETICS, KIEV, USSR
 SO - CYBERNETES (GB) (KHINTA3), VOL.2, NO.1, PP.19-26, JAN. 1973, 54 REF.

DT - J (JOURNAL)
 LA - ENGLISH
 CC - *2C6490; 2C6440; 2C8818; VCKRAK; ZHNGAF
 IT - BIOCYBERNETICS; ARTIFICIAL INTELLIGENCE; NEURAL NETS; BRAIN MODELS; SIMULATION; ELECTROENCEPHALOGRAPHY
 ST - NEUROBIONICS; BIONICS; NEURON ENSEMBLES; BRAIN FUNCTIONS
 AB - BASIC PROBLEMS OF THE NEW BRANCH OF BIOMICS-NEUROBIONICS-ARE DISCUSSED IN A COMPREHENSIVE FORM. CLASSES OF PROBLEMS ARE TREATED WHICH BEAR A RELATION TO THE STUDY OF NEURONS AND NEURON ENSEMBLES, TO SIMULATION OF SOME BRAIN FUNCTIONS, TO CONSTRUCTION OF NEUROELECTRONIC AND NEUROTECHNICAL SYSTEMS, AS WELL AS TO THE AUTOMATIC PROCESSING OF EXPERIMENTAL DATA, IN PARTICULAR, TO DECIPIHERING OF EEGS. THE CURRENT SITUATION IS BRIEFLY ANALYSED IN SOLVING THE ABOVE PROBLEMS.

-4-
 AN - B7310556; C7305560
 TI - INTERRELATIONS BETWEEN DIFFERENT STRUCTURES OF THE CENTRAL NERVOUS SYSTEM DURING ELECTRONARCOSIS
 AU - IVANOV-MUROMSKII, K.A.; LUK'YANOVA, O.N.; KUZ'MINA, E.I.; SEMENYUK, E.F.
 SO - KIBERN. AND VYCHISL. TEKH. (USSR) (KVYTAS), NO. 14, PP.30-4, 1972, 14 REF.
 DT - J (JOURNAL); EX (EXPERIMENTAL)
 LA - RUSSIAN
 CC - *2C6440; *2B4640; VCKRAK; ZHNGAF
 IT - NEURAL NETS
 ST - CENTRAL NERVOUS SYSTEM; ELECTRONARCOSIS; ELECTRICAL ACTIVITY; CORTICAL; SUBCORTICAL STRUCTURES; ELECTRIC CURRENT; SYSTEM ANALYTIC
 AB - CHANGES IN THE ELECTRICAL ACTIVITY OF VARIOUS CORTICAL AND SUBCORTICAL STRUCTURES UNDER THE ACTION OF AN ELECTRIC CURRENT ARE STUDIED. THE EXPERIMENTAL METHODOLOGY IS DESCRIBED AND THE RESULTS OF SOVIET AND FOREIGN INVESTIGATORS OF THE PHENOMENON OF ELECTRONARCOSIS FROM A SYSTEM ANALYTIC POSITION ARE COMPARED.

-5-
 AN - C7305555
 TI - MODELLING BRAIN ACTIVITIES
 AU - IVANOV-MUROMSKY, K.A.
 SO - KIBERN. AND VYCHISL. TEKH. (USSR) (KVYTAS), NO. 14, PP.4-8, 1972, 22 REF.
 DT - J (JOURNAL); TH (THEORETICAL)
 LA - RUSSIAN
 CC - *2C6440; VCKRAK
 IT - BRAIN MODELS
 ST - MODELLING; BRAIN ACTIVITIES; ANATOMICAL PARTS
 AB - AN ATTEMPT IS MADE TO SYSTEMATISE, FOR THE NON-SPECIALIST, THE

CONSIDERABLE QUANTITY OF EXPERIMENTAL AND THEORETICAL MATERIAL ACCUMULATED IN RECENT TIMES. METHODS OF MODELLING BRAIN FUNCTIONS AND THE EVOLUTION OF VIEWS ON THE INTERRELATIONS BETWEEN THE MAIN ANATOMICAL PARTS OF THE BRAIN ARE DISCUSSED IN PARTICULAR.

-6-

AN - C7307923
 TI - AUTOMATIC PROGNOSIS OF THE COURSE OF DISEASES BY MEANS OF A DIGITAL COMPUTER
 AU - ZASLAVSKII, S.YA.; IVANOV-MUROMSKII, K.A.
 OS - AKADEM. SCI. UKRAINIANS SSSR, USSR
 SO - DOKL. AKADEM. NAUK SSSR, VOL.187, NO.3, PP.528-30, JULY 1969, TAKEN FROM: SOVIET PHYS. DOKL. (USA), VOL.14, NO.7, PP.638-40, JUN. 1970
 DT - J (JOURNAL)
 LA - RUSSIAN
 CC - *1C8810
 IT - MEDICINE (DISEASES COURSE AUTOMATIC PROGNOSIS USING DIGITAL COMPUTER)
 AB - THE AUTHORS EXAMINE A GENERAL METHOD OF PROGNOSIS BASED ON A SIMPLIFIED SCHEME OF THE PHYSICIAN'S ARGUMENTS. THE INITIAL INFORMATION CONTAINED IN THE CASE HISTORIES IS DESCRIBED TERSELY AND IN THIS FORM CANNOT BE USED IN A DIGITAL COMPUTER. THE CONCEPT OF STATE IS INTRODUCED, MEANING A SET OF SYMPTOMS, COMPLICATIONS, ELEMENTS OF MEDICAL PROCEDURES, ETC., WHICH DETERMINE TO SOME EXTENT THE MANIFESTATION OF OTHER STATES, THEN THE COURSE OF A DISEASE CAN BE DESCRIBED APPROXIMATELY BY A SERIES OF SUCCESSIVE STATES.

SS 3 /C?

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SS 3 PSTG (5)SS 4 /C?
USER:
ss 3 and not ss 2PROG:
SS 4 PSTG (4)SS 5 /C?
USER:
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PROG:

-1-
 AN - A7582937
 TI - RECENT RESULTS OF MARINE ELECTRICAL FISHING EXPERIMENTS [IN INSTRUMENTATION IN OCEANOGRAPHY, BANGOR, WALES, 23-25 SEPT. 1975]
 AU - STEWART, P.A.M.
 OS - IERE: IEE INST. PHYS. ET AL
 SO - IERE, LONDON, ENGLAND, VIII+413 PP., PP.155-62, 1975, 19 REF.
 DT - PA (PAPER); AP (APPLICATIONS); TH (THEORETICAL)
 LA - ENGLISH
 CC - *2A9700; ZRAARD
 IT - BIOCINICS; ELECTRIC FIELD EFFECTS; ZOOLOGY
 SO - RECENT RESULTS OF MARINE ELECTRICAL FISHING EXPERIMENTS: ELECTRICAL STIMULATION;

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PULSED ELECTRIC FIELDS; CONDUCTING SEA WATER; FLATFISH; PLEUROPECTID FAMILY; ELECTROTAXIS; ELECTROMARCOISIS; STUNNING; PULSE GENERATOR CIRCUIT

AB - THE SUCCESSFUL USE OF ELECTRIC FIELDS IN THE CAPTURE OF MARINE FISH DEPENDS ON ACCURATE KNOWLEDGE OF THE REACTIONS OF FISH TO ELECTRICAL STIMULATION AND ON THE DESIGN OF ROBUST, RELIABLE SYSTEMS TO GENERATE PULSED ELECTRIC FIELDS IN CONDUCTING SEA WATER. SEVERAL RECENT EXPERIMENTS IN WHICH ELECTRICAL STIMULATION WAS INCORPORATED IN FISHING GEARS ARE DESCRIBED. THE DESIGN OF ELECTRICAL FISHING SYSTEMS IS CONSIDERED IN DETAIL. AN EXPERIMENT ON THE USE OF ELECTRICAL STIMULATION IN THE CAPTURE OF FLATFISH OF THE PLEUROPECTID FAMILY IS PRESENTED, AND THE EFFICIENCY AND ADVANTAGES OF THE SYSTEM ARE DISCUSSED.

-2-

AN - B7428117
TI - DEVICE FOR ISOLATING BIOELECTRIC SIGNALS DURING THE EFFECT OF HIGH-FREQUENCY ELECTRIC CURRENTS ON AN ORGANISM
AU - RYBAKOV, A.M.

OS - ALL-UNION SCI. RES. INST. MEDICAL-INSTRUMENT MANUFACTURE, MOSCOW, USSR

SO - MED. TEKH. (USSR) (MEDTEK), VOL.7, NO.4, PP.19-23, JULY-AUG. 1973, 4 REF. TAKEN FROM: BIOMED. ENG. (USA) (BIOEAF), VOL.7, NO.4, PP.216-19, JULY-AUG. 1973

DT - J (JOURNAL); PR (PRACTICAL)
LA - ENGLISH
CC - *2B4640; ZENGAF
IT - BIOMEDICAL ELECTRONICS
AB - ISOLATING BIOELECTRIC SIGNALS; ISOLATOR; ELECTROMARCOISIS
- DESCRIBES AN ISOLATOR BY MEANS OF WHICH IT WAS POSSIBLE TO OBTAIN HIGH-QUALITY RECORDINGS OF ELECTROENCEPHALOGRAMS DURING ELECTROMARCOISIS BY INTERFERENCE CURRENTS. THE REQUIREMENTS IMPOSED ON THE PARAMETERS OF THE LINKS OF THE ISOLATOR ARE SUBSTANTIATED, AND AN EXAMPLE OF THE CALCULATION OF THE PARAMETERS OF THE LINKS WITH THE USE OF THE RELATIONS OBTAINED IS GIVEN.

AN - B7407941
TI - CHARACTERISTICS OF APPARATUS DESIGNED TO ACT ON AN ORGANISM DURING BIOELECTRICAL EXAMINATIONS
AU - RYBAKOV, A.M.

OS - ALL-UNION SCI.-RES. INST. MEDICAL INSTRUMENT MANUFACTURE, MOSCOW, USSR
SO - MED. TEKH. (USSR) (MEDTEK), VOL.7, NO.1, PP.6-9, JAN.-FEB. 1973, 1 REF. TAKEN FROM: BIOMED. ENG. (USA) (BIOEAF), VOL.7, NO.1, PP.4-7, JAN.-FEB. 1973

DT - J (JOURNAL); PR (PRACTICAL)
LA - ENGLISH
CC - *2B4640; ZENGAF
IT - BIOMEDICAL MEASUREMENT; NOISE; ELECTRIC DISTORTION
ST - ELECTROMARCOISIS; BIOSIGNAL MEASUREMENT; DISTORTION
AB - THE AUTHOR EXAMINES THE PROBLEMS OF RECORDING BIOSIGNALS DURING THE ACTION OF VARIOUS FORMS OF ENERGY ON THE LIVING ORGANISM E.G. ELECTROMARCOISIS. THE ENERGY FROM THE ACTION SOURCE THAT ENTERS THE BIOSIGNAL MEASUREMENT APPARATUS CAN PRODUCE NOISE, DISTORTION, OR COMPLETE BLOCKAGE OF THE USEFUL SIGNAL.

-4-
AN - B7135070
TI - RECENT ADVANCES IN BIOINSTRUMENTATION TECHNIQUES
AU - KRISHNA MURTHY, T.G.
OS - BRITISH PHYS. LABS. INDIA LTD., BANGALORE
SO - IEE-IERE PROC. INDIA (GB) (IIFI)

JAN.-FEB. 1971
DT - J (JOURNAL); GR (GENERAL/REVIEW)
LA - ENGLISH
CC - *1B3520
IT - INSTRUMENTATION; BIOMEDICAL ENGINEERING
ST - INSTRUMENTATION TECHNIQUES; DIAGNOSIS; HUMAN ALIMENTS; ARTIFICIAL ORGANS; ELECTROCARDIOGRAM; ELECTROENCEPHALOGRAM; ELECTRORETINOGRAM; EYE; ELECTROMYGRAM FOR MUSCLES; X-RAYS; RADIOISOTOPES; CANCEROUS DISEASES; TELEVISION; BIOTELEMETRY; ELECTROMARCOISIS; LASERS; COMPUTERS; CATHETER
AB - AN ATTEMPT IS MADE TO DESCRIBE BRIEFLY SOME RECENT TECHNIQUES LIKE TELEVISION, BIOTELEMETRY, ELECTROMARCOISIS, LASERS AND COMPUTERS.

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36 5 LADNER, R.E./AU
37 1 LADNOVA, L.A./AU
38 15 LADO, F./AU
39 1 LADO, W.J./AU
40 1 LADOWICZKI, C./AU
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ELAPSED TIME ON INSP6976: 0.08 HRS.
\$9.60 ESTIMATED COST CONNECT TIME.
\$1.04 ESTIMATED COST TELECOMMUNICATIONS, IF APPLICABLE.
\$0.00 ESTIMATED COST OFFLINE PRINTS: 0
\$14.40 ESTIMATED COST ONLINE PRINTS: 18
\$25.04 ESTIMATED TOTAL COST THIS INSP6976 SESSION.
YOU ARE NOW CONNECTED TO THE INPADOC DATABASE.
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41 1 IVANOV-KHODOLINYJ G S/IN
42 3 IVANOV-LOSHKANOV VALERIJ S/IN
43 1 IVANOV-OMSKIJ VLADIMIR/IN
44 7 IVANOV-PERLIN IOSIF S/IN
45 7 IVANOV-SHIDLOVSKIJ NIKOLAJ V/IN
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47 38 LADNOV VYACHESLAV S/IN
 48 1 LADNOV/I/IN
 49 1 LADNOV/ I/IN
 50 1 LADNOV/IN
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 51 1 ELECTROANALGESY/TI
 52 1 ELECTROANESTHESIE/TI
 53 5 ELECTROANESTHESIA/TI
 54 1 ELECTROANESTHESIE/TI
 55 1 ELECTROANESTHESY/TI
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 56 1 ELECTROANICS/PA
 57 1 ELECTROANNEALING/TI
 58 1 ELECTROANODIC/TI
 59 1 ELECTROANOMALOUS/TI
 60 4 ELECTROAPARATAJ/PA
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 USER:
 sel 55

PROG:
 SS 2 PSTG (1)

SS 3 /C?
 USER:
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PROG:
 -1-
 PM - US 4383522-A [US4383522] 83.05.17
 TI - METHOD OF ELECTROANESTHESIA
 IN - KASTRUBIN EDUARD M [SU]; KORDJUKOV JURY V [SU]
 PA - KASTRUBIN EDUARD M; KORDJUKOV JURY V
 AP - 80.11.12 205981/80-A [800US-205981]
 PR - 80.11.12 US 205981/80-A [800US-205981]
 IC - A61N-001/34

-2-

PN - US 3791373-A [US3791373] 74.02.12
 TI - PORTABLE ELECTROANESTHESIA DEVICE WITH AUTOMATIC POWER CONTROL
 IN - WINKLER E; MC GOWAN E
 PA - UNIV SOUTHERN ILLINOIS
 AP - 72.03.02 231161/72-A [72US-231161]
 PR - 72.03.02 US 231161/72-A [72US-231161]
 IC - A61N-001/34

-3-
 PN - SU 1079252-A1 [SU1079252] 84.03.15
 TI - METHOD OF ELECTROANESTHESIA OF POSTOPERATIONAL STOMATOLOGIC PATIENTS AND ELECTRODE FOR ITS REALIZATION
 IN - RUDKO VLADIMIR F; DURIYAN RUBEN A; BIZYAEV ALEKSEJ F; SHUGAILOV IGOR A; IVERSEKII NIKOLAJ I; RESHETNIK VITALIJ K; MOSKOVETS OLEG N; PROKUDIN ALEKSANDR S; YAKOVLEV VLADIMIR A
 PA - MG MED STOMATOLOG [SU]; TSIII REFLEKSOTERAPII [SU]
 AP - 82.07.12 3474528/82-A [82SU-474528]
 PR - 82.07.12 SU 3474528/82-A [82SU-474528]
 IC - A61N-001/36

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 PN - SU 1074543-A1 [SU1074543] 84.02.23
 TI - METHOD OF GENERAL ELECTROANESTHESIA
 IN - LEBEDEV VALERIJ P; KATSENLSON YAROV S; LEOSKO VOLDEMAR A; BARANOVSKIY ALFRED I; SHLEMIS GRIGORIJ I
 PA - LEBEDEV VALERIJ P [SU]; KATSENLSON YAROV S [SU]; LEOSKO VOLDEMAR A [SU]; BARANOVSKIY ALFRED I [SU]; SHLEMIS GRIGORIJ [SU]
 AP - 82.01.18 3385722/82-A [82SU-385722]
 PR - 82.01.18 SU 3385722/82-A [82SU-385722]
 IC - A61N-001/34

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 PN - SU 995801-A2 [SU-995801] 83.02.15
 TI - METHOD OF ELECTROANESTHESIA
 IN - ILIN VALERIJ I; GUSAR VYACHESLAV V; MIRON ANATOLIJ V
 PA - GRODNEISK G MED INST [SU]
 AP - 80.07.09 2986393/80-A [80SU-986393]
 PR - 80.07.09 SU 2986393/80-A [80SU-986393]
 IC - A61N-001/34

SS 3 /C?
 USER:
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PROG:
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 PN - CS 211295-B [CS-211295] 82.02.26
 TI - CONNECTION OF THE HYBRID OUTLET CIRCUIT IN THE DEVICE FOR NEUROSTIMULATING ELECTROANALGESY AND ELECTROANESTHESY
 IN - LEBL MIROSLAV; MEDVED VLADIMIR
 PA - LEBL MIROSLAV; MEDVED VLADIMIR
 AP - 80.09.01 5943/80-A [80CS-005943]
 PR - 80.09.01 CS 5943/80-A [80CS-005943]
 IC - A61N-001/34

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